AMENDMENTS TO THE SPECIFICATION

Please delete the section entitled "SUMMARY OF THE INVENTION" in its entirety and substitute the following section therefor:

SUMMARY OF THE INVENTION

[0021] The present invention, among other applications, is directed to solving these and other problems and disadvantages of the prior art. The present invention provides a cryptographic operations superior technique for performing within microprocessorpipeline microprocessor. In one embodiment, an apparatus in a microprocessor pipeline microprocessor is provided for accomplishing cryptographic operations. The apparatus includes a cryptographic instruction, OFB mode logic, and execution logic. The cryptographic instruction is received by a microprocessorpipeline microprocessor as part of an instruction flowapplication program executing on the microprocessorpipeline microprocessor. The cryptographic instruction prescribes one of the cryptographic operations. The one of the cryptographic operations includes a plurality of OFB block cryptographic operations performed on a corresponding plurality of input text blocks. The OFB mode logic is operatively coupled to the cryptographic instruction. The OFB mode logic directs the microprocessor pipeline microprocessor to update pointer registers and an initialization vector location for each of the plurality of OFB block cryptographic operations. The execution logic is operatively coupled to the OFB mode logic. The execution logic executes the one of the cryptographic operations.

[0022] One aspect of the present invention contemplates a apparatus for performing cryptographic operations. The apparatus includes a cryptography unit within a microprocessor, and OFB mode logic. The cryptography unit executes one of the cryptographic operations responsive to receipt of a cryptographic instruction within an instruction flowapplication program that prescribes the one of the cryptographic operations. The one of the cryptographic operations includes a plurality of CFB block cryptographic operations performed on a corresponding plurality of input text blocks. The OFB mode logic is operatively coupled to the cryptography unit. The OFB mode logic directs the microprocessor to update pointer registers

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and an initialization vector location for each of the plurality of OFB block cryptographic operations.

[0023] Another aspect of the present invention comprehends a method for performing cryptographic operations in a microprocessor microprocessor. The method includes executing one of the cryptographic operations responsive to receiving a cryptographic instruction, wherein the cryptographic instruction prescribes the one of the cryptographic operations. The executing includes performing a plurality of OFB mode block operations on a corresponding plurality of input text blocks. The method also includes writing an initialization vector equivalent to an initialization vector location for employment by a following one of the plurality of OFB mode block operations on a following one of the plurality of input text blocks.